

Claims:

1. A pneumatic arrangement comprising a plurality of servicing modules for the preparation of compressed air, which are arranged on a common bus system, and a control module connected with the bus system for the performance of control and/or monitoring functions and/or communication functions for the servicing modules, wherein a valve arrangement is also connected with such common bus system, the control module being also designed for the implementation of control and/or monitoring functions for the valves of the valve arrangement together with the servicing modules and the valve arrangement constitutes a subassembly.

2. The pneumatic arrangement as set forth in claim 1, wherein the valves and the servicing modules are arranged in a row on the common bus system.

3. The pneumatic arrangement as set forth in claim 1, wherein the bus system is designed in the form of a bus conductor bar, which preferably comprises individual bar elements able to be plugged or attached together, the modules and the valve arrangement being able to be arranged in a row with the bus conductor bar.

4. The pneumatic arrangement as set forth in claim 1, wherein the control module is integrated in one of the servicing modules or is arranged as a separate module on the bus system or on the valve arrangement.

5. The pneumatic arrangement as set forth in claim 4, wherein the control module is arranged between the valve arrangement and the servicing modules.

6. The pneumatic arrangement as set forth in claim 1, wherein an electrical and/or pneumatic adapter module is arranged between the valve arrangement and the servicing modules on the bus system.

7. The pneumatic arrangement as set forth in claim 1, wherein the control module possesses a field bus interface for an external bus system.

8. The pneumatic arrangement as set forth in claim 1, wherein the display and/or operating unit is integrated in the control module or as a separate component is connected or adapted to be connected with the control module, more especially by way of ethernet or in a wireless manner is functionally connected with the control module.

9. The pneumatic arrangement as set forth in claim 1, wherein the servicing modules and/or valves of the valve arrangement are at least partly provided with sensors and/or specific diagnostic means, more particularly with pressure sensors, whose output signals are able to be transmitted by way of the bus system to the control module.

10. The pneumatic arrangement as set forth in claim 9, wherein the control module is provided with a monitoring and/or diagnostic means for the valve arrangement and the servicing modules, such means being more especially adapted to be effective for more than one system.

11. The pneumatic arrangement as set forth in claim 1, comprising optical and/or acoustic message alarm indicating means, such means serving more especially for diagnostic messages.